ABSTRACT

Tension within a power transfer system is measured by tension evaluator that includes an actuator, a first sensor, and a second sensor. The actuator applies a first load and a second load to a chain. The chain is moved a first amount of deflection in response to the first load and the chain is moved a second amount of deflection in response to the second load. The first sensor senses an event. A third amount of deflection is associated with the event. The second sensor senses an amount of travel of the chain between the second amount of deflection and the third amount of deflection.